



# Stars and Brightness

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. Two main reasons a star looks bright from Earth are its size and its \_\_\_\_\_.
2. A small but very close star can look \_\_\_\_\_ than a huge faraway star.
3. Astronomers call the true light output of a star its \_\_\_\_\_.
4. White stars are hotter than yellow stars but cooler than \_\_\_\_\_ stars.
5. Orion is a famous winter \_\_\_\_\_ shaped like a hunter with a belt.
6. The North Star, also called Polaris, sits almost directly above Earth's \_\_\_\_\_ pole.
7. Sirius is the \_\_\_\_\_ star in the night sky, partly because it is close to Earth.
8. Two stars with the same actual brightness will look unequal if they are at different \_\_\_\_\_.
9. Hotter stars give off more \_\_\_\_\_ light than cooler stars do.

## Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Apparent brightness	→	_____	How bright a star looks from Earth
Actual brightness	→	_____	True light output of a star
Polaris	→	_____	North Star above Earth's pole
Sirius	→	_____	Brightest star in the night sky

## Answer Key · Stars and Brightness · Grade: Grade 5

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### Part A: Fill in the Blank

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Write the missing word or number on each line.

1. Two main reasons a star looks bright from Earth are its size and its distance .
2. A small but very close star can look brighter than a huge faraway star.
3. Astronomers call the true light output of a star its luminosity .
4. White stars are hotter than yellow stars but cooler than blue stars.
5. Orion is a famous winter constellation shaped like a hunter with a belt.
6. The North Star, also called Polaris, sits almost directly above Earth's north pole.
7. Sirius is the brightest star in the night sky, partly because it is close to Earth.
8. Two stars with the same actual brightness will look unequal if they are at different distances .
9. Hotter stars give off more blue light than cooler stars do.

### Part B: Matching

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Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Apparent brightness	→ <u>How bright a star looks from Earth</u>	How bright a star looks from Earth
Actual brightness	→ <u>True light output of a star</u>	True light output of a star
Polaris	→ <u>North Star above Earth's pole</u>	North Star above Earth's pole
Sirius	→ <u>Brightest star in the night sky</u>	Brightest star in the night sky